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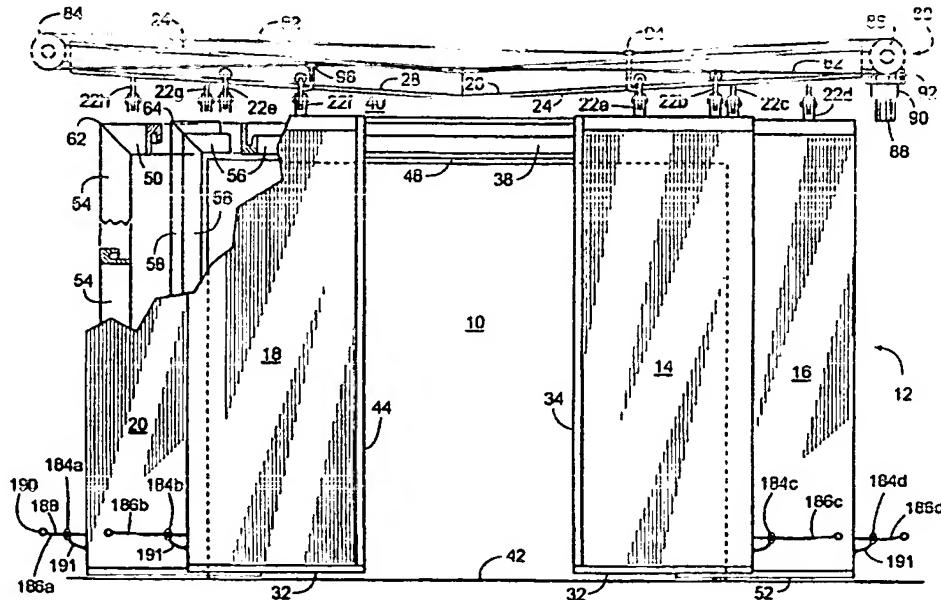
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(54) Title: TRANSLATING DOOR WITH DISENGAGEABLE SEALS



(57) **Abstract:** A generally horizontally sliding door includes a sliding or otherwise translating door panel (18) with a full-perimeter seal engages sealing surfaces upon closing and at least partially disengages the surfaces upon opening. The door panel travels along an overhead (24) track that is slightly inclined to lower the panel's upper (30) and lower (32) edge seals into engagement with sealing surfaces as the door closes. To provide a substantially full-perimeter seal, a leading edge seal (44) and a trailing edge seal (54) engage sealing surfaces as well. Some of the edge seals are joined to create corner seals (62). The seals are adapted for single panel sliding doors, bi-parting doors, multi-panel doors, and various combinations thereof.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 191 010 A (STERNER BERNARD) 1 February 1974 (1974-02-01) page 3, line 34 -page 4, line 2 figures 1-3	1-3,6-11
Y		4,5,12, 15
A	---	13,14
Y	US 2 878 532 A (H.B. CLARK) 24 March 1959 (1959-03-24) column 3, line 57 -column 4, line 9 column 5, line 75 -column 6, line 3 figure 2 ---	4,5
Y	CH 196 048 A (SIEGENWALDER OTTO) 28 February 1938 (1938-02-28) page 2, column 1, line 20 - line 28 figures 1,2,4,17 ---	12,15
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 197 817 A (D.R. VORIS) 3 August 1965 (1965-08-03) column 4, line 9 - line 19 column 4, line 49 - line 70 figure 1	16,20,23
Y A	---	17,24,25 18,19, 21,22
Y	US 3 460 290 A (WUTZKE ALBERT J) 12 August 1969 (1969-08-12) figure 3	17,24-29
Y	FR 1 514 166 A (GUICHARD-PERRACHON) 10 May 1968 (1968-05-10) page 2, column 1, line 19 - line 42 figures 1-6	26-29

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte. onal Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2191010	A 01-02-1974	NONE	
US 2878532	A 24-03-1959	NONE	
CH 196048	A 28-02-1938	NONE	
US 3197817	A 03-08-1965	NONE	
US 3460290	A 12-08-1969	NONE	
FR 1514166	A 10-05-1968	NONE	